

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer readable medium having a data structure for managing reproduction of ~~at least video data~~, comprising:

a data area storing a first video data associated with a main reproduction path of the video data and a second video data associated with a side reproduction path of the video data, the side reproduction path being a side path to the main reproduction path;

a playlist area storing a first playlist file including a playitem identifying the first video data and a second playlist file including a playitem identifying the second video data; and

a navigation area storing ~~at least one~~ a navigation file including a first path item, the navigation file including a navigation commands command executing the first playlist file and a second path item including a navigation command executing the second playlist file, for managing reproduction of at least video data forming a main reproduction path and a side reproduction path such that the main reproduction path is not reproduced being suspended during reproduction of the side reproduction path and resumed at the suspended position after the reproduction of the side reproduction path, the side reproduction path being a side path to the main reproduction path.

2. (Currently Amended) The computer readable medium of claim 1, wherein the second ~~a portion of the navigation commands selectively determine whether to play a playlist file is branched from the first playlist file~~ forming at least a portion of the side reproduction path.

3-9. (Cancelled)

10. (Currently Amended) The computer readable medium of claim 1, wherein the navigation commands included in the first and the second path items are divided into navigation command groups.

11. (Currently Amended) The computer readable medium of claim 10, wherein at least one of the main reproduction path ~~navigation command groups selectively branches off reproduction to the side reproduction path.~~

12-19. (Cancelled)

20. (Currently Amended) The computer readable medium of claim 10, wherein the first path item and the second path item ~~navigation file further includes~~ include a length indicator indicating a length of the first path item and the second path item, respectively ~~navigation file.~~

21. (Currently Amended) The computer readable medium of claim 10, wherein the first path item and the second path item ~~navigation file further includes~~ include an

attribute ~~indicator~~indicators providing an ~~indication~~indications of at least one attribute of the first path item and the second path item, respectively~~navigation file~~.

22. (Currently Amended) The computer readable medium of claim 10, wherein the navigation file further includes a number of path item ~~navigation command groups~~ ~~indicator~~indicators indicating a ~~the~~ number of the ~~navigation command groups~~ path item included in the navigation file.

23. (Cancelled)

24. (Currently Amended) The computer readable medium of claim 1, wherein a ~~portion of the~~ second path item ~~navigation commands~~ ~~command~~ resuming resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

25-29. (Cancelled)

30. (Currently Amended) A method of recording a data structure for managing reproduction of video data on a recording medium, comprising:

recording a first video data associated with a main reproduction path of the video data and a second video data associated with a side reproduction path of the video data in a data area of the recording medium, the side reproduction path being a side path to the main reproduction path, the main reproduction path being suspended

during the reproduction of the side reproduction path and resumed at the suspended position after the reproduction of the side reproduction path;

recording a first playlist file including a playitem identifying the first video data and a second playlist file including a playitem identifying the second video data in a playlist area of the recording medium; and

recording at least one a navigation file in a navigation area of on the recording medium, the navigation file including a first path item including a navigation commands command executing the first playlist file and a second path item including a navigation command executing the second playlist file for managing reproduction of at least video data forming a main reproduction path and a side reproduction path such that the main reproduction path is not reproduced during reproduction of the side reproduction path, the side reproduction path being a side path to the main reproduction path.

31. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least video data recorded on a recording medium, comprising:

reproducing reading at least one a navigation file from a navigation area of recorded on the recording medium, the navigation file including a first path item including a navigation commands command executing a first playlist file and a second path item including a navigation command executing a second playlist file;

reading the first path item from the navigation area;

reading the first playlist file executed by the first path item from a playlist area of the recording medium, the first playlist file including a playitem identifying a first video data associated with a main reproduction path of the video data;

reading the first video data identified by the first playlist file from a data area of the recording medium;

reading the second path item from the navigation area;

reading the second playlist file executed by the second path item from the playlist area, the second playlist file including a playitem identifying a second video data associated with a side reproduction path of the video data, the side reproduction path being a side path to the main reproduction path;

reproducing the second video identified by the second playlist file from the data area, ~~for managing reproduction of at least video data forming a main reproduction path and a side reproduction path such that the main reproduction path is being suspended not reproduced during the reproduction of the side reproduction path;~~ and

resuming the reproduction of the main reproduction path at the suspended position after the reproduction of the side reproduction path, ~~the side reproduction path being a side path to the main reproduction path.~~

32. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least video data on a recording medium, comprising:

~~an optical~~ a recording device configured to record data on the recording medium; and

a controller configured to control the ~~optical~~ recording device to record first video data associated with a main reproduction path of the video data and second video data associated with a side reproduction path of the video data in a data area of the recording medium, the side reproduction path being a side path to the main reproduction path, the main reproduction path being suspended during the

reproduction of the side reproduction path and resumed at the suspended position after the reproduction of the side reproduction path,

wherein the controller is further configured to control a recording unit to record a first playlist file including a playitem identifying the first video data and a second playlist file including a playitem identifying the second video data in a playlist area of the recording medium and to record a at least one navigation file on in a navigation area of the recording medium, the navigation file including a first path item including a navigation commands command executing the first playlist file and a second path item including a navigation command for executing the second playlist file for managing reproduction of at least video data forming a main reproduction path and a side reproduction path such that the main reproduction path is not reproduced during reproduction of the side reproduction path, the side reproduction path being a side path to the main reproduction path.

33. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of ~~at least multiple reproduction path~~ video data recorded on a recording medium, comprising:

a an optical-reproducing device configured to reproduce data recorded on the recording medium;

a controller configured to control the optical-reproducing device to reproduce at least one a navigation file from a navigation area of recorded on the recording medium, the navigation file including a first path item including a navigation commands command executing a first playlist file and a second path item including a navigation command executing a second playlist file,

wherein the controller is further configured to control a reproducing unit to reproduce the first path item from the navigation area,

wherein the controller is further configured to reproduce the first playlist file executed by the first path item from a playlist area, the playlist area physically separated from the navigation area of the recording medium, the first playlist file including a playitem identifying a first video data associated with a main reproduction path of the video data,

wherein the controller is further configured to reproduce the first video data identified by the first playlist file from a data area, the data area physically separated from the navigation area and the playlist area of the recording medium,

wherein the controller is further configured to reproduce the second path item from the navigation area, to reproduce the second playlist file executed by the second path item from the playlist area, the second playlist file including a playitem identifying a second video data associated with a side reproduction path of the video data, the side reproduction path being a side path to the main reproduction path,

wherein the controller is further configured to reproduce the second video data identified by the second playlist file from the data area, the main reproduction path being suspended during reproduction of the side reproduction path,

wherein the controller is further configured to resume the reproduction of the main reproduction path at the suspended position after the reproduction of the side reproduction path~~for managing reproduction of at least video data forming a main reproduction path and a side reproduction path such that the main reproduction path is not reproduced during reproduction of the side reproduction path, the side reproduction path being a side path to the main reproduction path.~~

34. (Currently Amended) The method of claim 30, wherein ~~a portion of the second navigation commands selectively determine whether to play a playlist file is branched from the first playlist file~~ forming at least a portion of the side reproduction path.

35. (Cancelled)

36. (Currently Amended) The method of claim ~~[[35]]~~ 30, wherein the main reproduction path ~~at least one of the navigation command groups selectively branches off reproduction~~ to the side reproduction path.

37. (Currently Amended) The method of 30, wherein the first path item ~~a portion of the navigation commands command resumes~~ resuming reproduction of the main reproduction path after reproduction of the side reproduction path.

38. (Currently Amended) The method of claim 31, wherein ~~a portion of the navigation commands selectively determine whether to play a second playlist forming at least a portion of the side reproduction path~~ file is branched from the first playlist file.

39. (Cancelled)

40. (Currently Amended) The method of claim ~~[[39]]~~ 31, wherein the main reproduction path ~~at least one of the navigation command groups selectively branches off reproduction~~ to the side reproduction path.

41. (Currently Amended) The method of 31, wherein the first path item ~~a portion of the navigation commands command resumes~~ resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

42. (Currently Amended) The apparatus of claim 32, wherein ~~a portion of the navigation commands selectively determine whether to play a~~ the second playlist file is branched from the first playlist file ~~forming at least a portion of the side reproduction path.~~

43. (Cancelled)

44. (Currently Amended) The apparatus of claim ~~[[43]]~~ 32, wherein the main reproduction path ~~at least one of the navigation command groups selectively branches off reproduction to the side reproduction path.~~

45. (Currently Amended) The apparatus of 32, wherein the first path item ~~a portion of the navigation commands command resuming~~ resumes reproduction of the main reproduction path after reproduction of the side reproduction path.

46. (Currently Amended) The apparatus of claim 33, wherein ~~a portion of the navigation commands selectively determine whether to play a~~ the second playlist file is branched from the first playlist file ~~forming at least a portion of the side reproduction path.~~

47. (Cancelled)

48. (Currently Amended) The apparatus of claim ~~[[47]]~~ 33, wherein the main reproduction path ~~at least one of the navigation command groups selectively branches off reproduction to the side reproduction path.~~

49. (Currently Amended) The apparatus of 33, wherein the first path item ~~a portion of the navigation commands command resumes resuming reproduction of the main reproduction path after reproduction of the side reproduction path.~~

<End of Claims Listing>